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ABSTRACT OF THE DISCLOSURE

A multi-phase linear motor includes a number of magnets side by side with multiple phase coils in which alternating currents that are offset by a predetermined value are made to flow. The interaction between the magnets and the phase coils causes a relative linear displacement of magnets with respect to the phase coils. In the linear motor in question, the phase coils lie on an axis that is perpendicular to the direction of motion.